

IN THE CLAIMS:

Please delete the paragraph heading on page 12 of the subject application, line 1, and insert in place thereof the paragraph heading as follows:

--CLAIMS--

Please insert the paragraph heading on page 12 of the subject application, before claim 1, the following:

-- What is claimed is: --.

Please amend the claims as follows:

1. (Currently Amended) A transceiver for a transmission and reception signal which can be transmitted via a signal line having a particular line impedance ( $Z_{\text{LINE}}$ ), having:
  - a) a line driver (6) for driving a transmission signal via the signal line and having
  - b) an analog echo cancellation filter (15) for signal suppression for an echo signal brought about by the transmission signal, ~~characterized in that~~ wherein the line driver (6) has a synthesized output impedance ( $R_{\text{SYN}}$ ), with the line driver (6) having a downstream hybrid circuit (14) for connecting an analog echo cancellation filter (15).
2. (Currently Amended) The transceiver as claimed in claim 1, ~~characterized in that~~ wherein the analog echo cancellation filter (15) is programmable.
3. (Currently Amended) The transceiver as claimed in claim 2, ~~characterized in that~~ wherein the transfer function of the echo cancellation filter (15) has a programmable pole point and a programmable zero point.
4. (Currently Amended) The transceiver as claimed in claim 1, ~~characterized in that~~ wherein the line driver (6) is of differential design.
5. (Currently Amended) The transceiver as claimed in claim 1, ~~characterized in that~~ wherein the synthesized output impedance ( $R_{\text{SYN}}$ ) of the line driver (6) is real.
6. (Currently Amended) The transceiver as claimed in claim 1, ~~characterized in that~~ wherein the hybrid circuit (14) has a first two-pole connection (10a, 10b) next to the output of the line driver (6), a second two-pole connection (12a, 12b) for connection to the signal line, and a third two-pole connection (14a, 14b) for connection to the analog echo cancellation filter (15).

7. (Currently Amended) The transceiver as claimed in claim 6, ~~characterized in that~~ wherein the first connection (10a, 10b) on the hybrid circuit (11) and the second connection (12a, 12b) on the hybrid circuit (11) have series resistors (R1, R1') between them which are connected in series with the line impedance ( $Z_{LINE}$ ) of the signal line.

8. (Currently Amended) The transceiver as claimed in claim 6, ~~characterized in that~~ wherein the first connection (10a, 10b) on the hybrid circuit (11) and the second connection (12a, 12b) on the hybrid circuit respectively have a first and a second series-connected crosscoupling resistor (R2, R2', R3, R3') between them.

9. (Currently Amended) The transceiver as claimed in claim 6, ~~characterized in that~~ wherein the third two-pole connection (14a, 14b) on the hybrid circuit (11) for connecting the echo cancellation filter (15) is tapped off between the series-connected crosscoupling resistors (R2, R3', R2', R3).

10. (Currently Amended) The transceiver as claimed in claim 6, ~~characterized in that~~ wherein the resistance values of the resistors connected in the hybrid circuit (11) satisfy the following equation:

$$R2 = R3 \cdot \frac{R_{SYN}}{R1 + R_{SYN}}$$

where R1 is the resistance value of a series resistor, R2 is the resistance value of the first crosscoupling resistor, and R3 is the resistance value of the second crosscoupling resistor, and where  $R_{SYN}$  is the synthesized output impedance of the line driver (6).

11. (Currently Amended) The transceiver as claimed in claim 6, ~~characterized in that~~ wherein the resistors (R1, R1', R2, R2', R3, R3') connected in the hybrid circuit (11) are real resistors.

12. (Currently Amended) The transceiver as claimed in claim 6, ~~characterized in that~~ wherein the hybrid circuit (11) is of symmetrical design.

13. (Currently Amended) The transceiver as claimed in claim 1, ~~characterized in that~~ wherein a reception filter (22) is provided for filtering a signal received via the signal line.

14. (Currently Amended) The transceiver as claimed in claim 1, ~~characterized in that~~ wherein a subtraction circuit (19) is provided which subtracts from the filtered output signal from the reception filter (22) the transmission signal

simulated by the echo cancellation filter ~~(15)~~ in order to generate a reception signal which has been liberated of the echo signal.

15. (Original) The use of the transceiver as claimed in claim 1 for a broadband communication system, particularly for an xDSL broadband communication system.